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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/668,247	09/24/2003	Mitsuaki Osame	0756-7202 2065		
31780 ERIC ROBINS	7590 05/08/2007 SON	•	EXAMINER		
PMB 955			TAN, VIBOL		
21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165			ART UNIT	PAPER NUMBER	
	•		2819		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	_				
Office Action Summary		10/668,247	OSAME ET AL.					
		Examiner	Art Unit					
		Vibol Tan	2819					
	The MAILING DATE of this communication app			_				
Period fo	or Reply		·					
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
1) 🛛	Responsive to communication(s) filed on 22 M	arch 2007.						
· <u> </u>								
_	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-4 and 6-35</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
_	☑ Claim(s) <u>1-4,11-32 and 34</u> is/are allowed.							
6)🖂	Claim(s) <u>6-10,33 and 35</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) 🗌	The specification is objected to by the Examine	r.						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11) 🗌	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the International Bureau	·	o in this National Stage					
* S	* See the attached detailed Office action for a list of the certified copies not received.							
_								
Attachment								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
	nation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa	· · · · · · · · · · · · · · · · · · ·					
Paper	No(s)/Mail Date	6) Other:						

Art Unit: 2819

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 6-8, 10 and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Osame (US 2003/0210219 A1).

The applied reference has a common assignee or inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

In claim 6, Osame teaches all claimed features in Fig. 4, a clocked inverter comprising: first to third transistors (101, 202, 102) connected in series, and a fourth transistor and a fifth transistor (105, 103) connected in series, wherein: gates of the fourth transistor (105) and the fifth transistor (103) are connected to each other (at LAT); drains of the fourth transistor and the fifth transistor are each connected to a gate of the

Art Unit: 2819

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first transistor (solid node on the gate of 101); sources of the first transistor (101) and the fifth transistor (103) are each electrically connected to a first power (VDD); a source of the third transistor (102) is electrically connected to a second power source (VSS); and an amplitude of a signal inputted (DATA) to a source of the fourth transistor is smaller ([0048], High potential of data signal is 6V) than a potential difference between the first power source and the second power source; the first power source is a high potential power source (9V, [0048]); the second power source is a low potential power source (VSS is 0V); the first transistor (101) and the fifth transistor (103) are each a P-type transistor (as seen); and the second to fourth transistors (202, 102 and 105) are each an N-type transistor (as seen).

In claim 7, Osame teaches all claimed features in Fig. 4, a clocked inverter comprising: first to third transistors (101, 201, 102) connected in series, and a fourth transistor and a fifth transistor (105, 103) connected in series, and a sixth transistor (106) and a seventh transistor (104) connected in series, wherein: gates of the fourth transistor (105) and the fifth transistor (103) are connected to each other (at LAT); drains of the fourth transistor and the fifth transistor are each connected to a gate of the first transistor (solid node on the gate of 101); gates of the sixth transistor and the seventh transistor are connected to each other (at LATB); drains of the sixth transistor (106) and the seventh transistor (104) are each connected to a gate of the third transistor (102); sources of the first transistor (101) and the fifth transistor (103) are each electrically connected to a first power (VDD); a source of the third transistor (102) is electrically connected to a second power source (VSS); and an amplitude of a signal

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Application/Control Number: 10/668,247

Art Unit: 2819

inputted (DATA) to a source of the fourth transistor is smaller ([0048], High potential of data signal is 6V) than a potential difference between the first power source and the second power source; the first power source is a high potential power source (9V, [0048]); the second power source is a low potential power source (VSS is 0V); the first transistor (101), the second transistor (201), the fifth transistor (103), and the sixth transistor (106) are each a P-type transistor (as seen); and the third transistor (102), the fourth transistor (105), and the seventh transistor (104) are each an N-type transistor (as seen).

In claim 8, Osame teaches all claimed features in Fig. 4, a clocked inverter comprising: first to third transistors (102, 201, 101) connected in series, and a fourth transistor and a fifth transistor (106, 104) connected in series, wherein: gates of the fourth transistor (106) and the fifth transistor (104) are connected to each other (at LATB); drains of the fourth transistor and the fifth transistor are each connected to a gate of the first transistor (solid node on the gate of 102); sources of the first transistor (102) and the fifth transistor (104) are each electrically connected to a first power (VSS); sources of the third transistor (101) is electrically connected to a second power source (VDD); and an amplitude of a signal inputted (DATA) to a source of the fourth transistor is smaller ([0048], High potential of data signal is 6V) than a potential difference between the first power source and the second power source; the first power source is a low potential power source (VSS is 0V); the second power source is a high potential power source (VDD is 9V); the first transistor (102) and the fifth transistor (104) are

Art Unit: 2819

each an N-type transistor (as seen); and the second to fourth transistors (201, 101, 106) are each a P-type transistor (as seen).

In claim 10, Osame further teaches clocked inverter according to claim 6, wherein the fourth transistor is replaced with an analog switch ([0029] and [0031]).

In claim 33, Osame further teaches clocked inverter according to claim 7, wherein the fourth transistor is replaced with an analog switch ([0029] and [0031]).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osame.

In claim 9, all claimed features in Fig. 4, a clocked inverter comprising: first to third transistors (102, 201, 101) connected in series, a fourth transistor and a fifth transistor (106, 104) connected in series, and a sixth transistor (105) an a seventh transistor (103) connected in series, wherein: gates of the fourth transistor (106) and the fifth transistor (104) are connected to each other (at LATB); drains of the fourth transistor and the fifth transistor are each connected to a gate of the first transistor (solid node on the gate of 102); gates of the sixth transistor and the seventh transistor are connected to each other (at LAT); drains of he sixth transistor (105) and the seventh transistor (103) are each connected to a gate of the third transistor (101); sources of the

Application/Control Number: 10/668,247 Page 6

Art Unit: 2819

first transistor (102) and the fifth transistor (104) are each electrically connected to a first power (VSS); sources of the third transistor (101) and the seventh transistor are electrically connected to a second power source (VDD); and an amplitude of a signal inputted (DATA) to a source of the fourth transistor is smaller ([0048], High potential of data signal is 6V) than a potential difference between the first power source and the second power source; the first power source is a low potential power source (VSS is 0V); the second power source is a high potential power source (VDD is 9V); with the exception of teaching the second transistor (201), the third transistor (101), the fourth transistor (106), and the seventh transistor are each an N-type transistor; and the first transistor (102) and the fifth transistor (104), and the sixth transistor (105) are each a Ptype transistor. However, switching transistors between P-type and N-type or vice versa has been known in the art; furthermore, it would have been obvious to one ordinary skill in the art at the time the invention was made to switch transistors types, since it has been held that a mere reversal of essential working parts of a device involves only routine skill in the art. In re Einstein, 8 USPQ 167.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to reverse transistors between P-type and N-type, in order to provide another version of the device.

In claim 35, Osame further teaches clocked inverter according to claim 9, wherein the fourth transistor is replaced with an analog switch ([0029] and [0031]).

6. Claims 1-4, 11-32 and 34 appear to comprise allowable subject matter(s).

Response to Arguments

Art Unit: 2819

7. Applicant's arguments with respect to claims 6-10, 33 and 35 have been considered but are moot in view of the new ground(s) of rejection.

Claims 6, 8 and 10 were previously allowable; however, upon further consideration they are now rejected as being anticipated by Osame.

Amended claims 7 and 33 are rejected as being anticipated by Osame.

Amended claims 9 and 35 are rejected as being obvious over Osame.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VIBOL TAN
PRIMARY EXAMINER

Page 7